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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/510,947	01/11/2005	James M. Wilson	UPN-02811USA	2110
²⁷⁰ HOWSON AN	7590 05/15/2007 ID HOWSON		EXAMINER	
SUITE 210			LI, BAO Q	
	CENTER DRIVE STON, PA 19034		ART UNIT PAPER NUMBER	
			1648	•
			•	
		•	MAIL DATE	DELIVERY MODE
			05/15/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
• - •	10/510,947	WILSON ET AL.			
Office Action Summary	Examiner	Art Unit			
	Bao Qun Li	1648			
The MAILING DATE of this communication app	ears on the cover sheet wi	th the correspondence address			
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNIC 36(a). In no event, however, may a revill apply and will expire SIX (6) MON, cause the application to become AB	CATION. Poply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on 28 Oc	ctober 2004.				
,	action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits					
closed in accordance with the practice under E	•	·			
Disposition of Claims					
4)⊠ Claim(s) <u>1-5 and 17</u> is/are pending in the applie	cation.				
4a) Of the above claim(s) is/are withdray					
5) Claim(s) is/are allowed.		4			
6) Claim(s) is/are rejected.	•				
7) Claim(s) is/are objected to.					
8) Claim(s) 1-5 and 17 are subject to restriction a	nd/or election requiremen	.			
Application Papers					
	_				
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acceptable		ou the Evenines			
	• •	•			
Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct		` '			
11) The oath or declaration is objected to by the Ex	· · · · · · · · · · · · · · · · · · ·		•		
•	armior. Note the attached	Office Action of format 10-102.			
Priority under 35 U.S.C. § 119		·			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. §	119(a)-(d) or (f).			
1. Certified copies of the priority documents	s have been received.				
2. Certified copies of the priority documents	s have been received in A	pplication No			
3. Copies of the certified copies of the prior	rity documents have been	received in this National Stage			
application from the International Bureau	ı (PCT Rule 17.2(a)).				
* See the attached detailed Office action for a list	of the certified copies not	received.			
Attachment(s)					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)		ummary (PTO-413))/Mail Date			
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date		formal Patent Application			

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DETAILED ACTION

Claims 1-5, 17 and 49-93 are pending.

Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions, which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-5 and 17, 55-59, 67-68, 92-93, drawn to a chimeric Ebola envelope protein and method of using the same, wherein the chimeric Ebola virus envelope protein comprises a functional deletion in Ebola virus envelope protein between a signal peptide and a cytoplasmic domain.

Group II, claim(s) 49-50, drawn to a chimeric Ebola envelope protein comprising a complete deletion of the complete Ebola signal peptide or portion thereof.

Group III, claim(s) 51-52, drawn to a chimeric Ebola envelope protein comprising a deletion in all or portion of the transmembrance domain.

Group IV, claim(s) 53-54, drawn to a chimeric Ebola envelope protein comprising a deletion in all or portion of the cytoplasmic domain.

Group IV, claim(s) 60-65, 69-71, 90-91, drawn to a nucleic acid molecule encoding g chimeric protein of Ebola envelope protein and method of using the same.

Group IV, claim(s) 72-89, drawn to a recombinant virus and method of using the same wherein the recombinant virus comprises a chimeric Ebola envelope protein and a minigene.

The inventions listed as Groups I to VI do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the claimed chimeric Ebola virus envelope protein in group I and chimeric Ebola virus envelope protein are structurally different, he common

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technique of the chimeric Ebola virus comprising a functional deletion between a signal peptide and cytoplasmic domain in group I is not the common technique that links the chimeric Ebola virus envelope proteins in group II and IV, since the chimeric Ebola virus envelope protein in group II comprises a complete deletion of the complete Ebola signal peptide, and the chimeric Ebola virus envelope protein in group IV comprising a deletion in all or portion of the cytoplasmic domain.

This application contains claims directed to more than one species of the generic invention.

These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are listed as (a) to (ad).

Please select each species cited in claim 17.

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

The claims are deemed to correspond to the species listed above in the following manner:

Claim 17 comprises the species.

The following claim(s) are generic: claims 1-16 and 18-93.

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The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: Each of the chimeric sequences has different sequence structures; therefore, it does not have same technical feature that links all of the claimed chimeric proteins together.

Applicant is advised that the reply to this requirement to be complete must include (I) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentable distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bao Qun Li whose telephone number is 571-272-0904. The examiner can normally be reached on 6:30 am to 3:30 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bruce Campell can be reached on 571-272-0974. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Bao Qun Li

May 13, **3**007 👍

BACOUNEL, MO